

What is claimed is:

1. An interbody spinal implant for insertion at least in part into an implantation space formed across a disc space between adjacent vertebral bodies of a human spine and into at least a portion of the endplates of the vertebral bodies, said implant comprising:

*5/10*  
a body having a leading end for insertion first into the disc space and a trailing end opposite said leading end;

opposite upper and lower surfaces adapted to be placed in contact with and to support the adjacent vertebral bodies, said upper and lower surfaces being arcuate;

an opening passing through said upper and lower surfaces for permitting for the growth of bone from adjacent vertebral body to adjacent vertebral body through said implant; and

said implant being manufactured from a composite of cortical bone and at least one bioresorbable material, said cortical bone and said at least one bioresorbable material being combined to form a machinable material from which said implant is manufactured.

2. The implant of claim 1, wherein said composite includes cortical bone fibers.

3. The implant of claim 1, wherein said composite includes cortical bone filaments.

4. The implant of claim 1, wherein said composite includes cortical bone particles.

5. The implant of claim 1, wherein said bioresorbable material includes plastics.

6. The implant of claim 1, wherein said bioresorbable material includes ceramic.

7. The implant of claim 1, wherein said bioresorbable material includes composite plastics.

8. The implant of claim 1, further comprising at least one protrusion extending from at least one of said upper and lower surfaces for engaging at least one of the adjacent vertebral bodies to maintain said implant within the implantation space.

9. The implant of claim 8, wherein said protrusion comprises at least one of a ridge, ratcheting, spline, and knurling.

10. The implant of claim 1, wherein said upper and lower surfaces are porous.

11. The implant of claim 1, wherein said upper and lower surfaces include a bone ingrowth surface.

12. The implant of claim 1, wherein at least a portion of said upper and lower surfaces are in an angular relationship to each other from trailing end to leading end for allowing angulation of the adjacent vertebral bodies relative to each other.

13. The implant of claim 1, wherein at least a portion of said leading end is tapered for facilitating insertion of said implant between the two adjacent vertebral bodies.

14. The implant of claim 1, in combination with a fusion promoting material other than bone.

15. The implant of claim 1, further in combination with bone morphogenetic protein.

16. The implant of claim 1, further in combination with genetic material coding for production of bone.

17. The implant of claim 1, further in combination with a chemical substance to inhibit scar formation.

add  
B3